

What is claimed is:

1. A substrate for an information recording medium, which is formed of a glass having a glass transition temperature (T<sub>g</sub>) of 600°C or higher and having an etching rate of 0.1 μm/minute or less with regard to a hydrosilicofluoric acid aqueous solution that is maintained at a temperature of 45°C and has a hydrosilicofluoric acid concentration of 1.72 % by weight.
2. The substrate for an information recording medium as recited in claim 1, wherein the glass contains SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, CaO and K<sub>2</sub>O as essential components.
3. The substrate for an information recording medium as recited in claim 2, wherein the glass has a composition comprising, by mol%, 45 to 70 % of SiO<sub>2</sub>, 1 to 15 % of Al<sub>2</sub>O<sub>3</sub>, the total content of SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> being 57 to 85 %, 2 to 25 % of CaO, 0 to 15 % of BaO, 0 to 15 % of MgO, 0 to 15 % of SrO, 0 to 10 % of ZnO, the total content of MgO, CaO, SrO, BaO and ZnO being 2 to 30 %, more than 0 % but not more than 15 % of K<sub>2</sub>O, 0 to 8 % of Li<sub>2</sub>O, 0 to 8 % of Na<sub>2</sub>O, the total content of K<sub>2</sub>O, Li<sub>2</sub>O and Na<sub>2</sub>O being 2 to 15 %, 0 to 12 % of ZrO<sub>2</sub> and 0 to 10 % of TiO<sub>2</sub>, the total content of said components being at least 95 %.
4. The substrate for an information recording medium as recited in claim 1, wherein the glass contains SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, CaO, Na<sub>2</sub>O and K<sub>2</sub>O and has a chemically strengthened layer.
5. The substrate for an information recording medium as recited in claim 4, wherein the glass has a composition comprising, by mol%, 47 to 70 % of SiO<sub>2</sub>, 1 to 10 % of Al<sub>2</sub>O<sub>3</sub>, the total content of SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> being 57 to 80 %, 2 to 25 % of CaO, 1 to 15 % of BaO, 1 to 10 % of Na<sub>2</sub>O, more than

0 % but not more than 15 % of  $K_2O$ , 0 to 3 % of  $Li_2O$ , the total content of  $Na_2O$ ,  $K_2O$  and  $Li_2O$  being 3 to 16 %, 1 to 12 % of  $ZrO_2$ , 0 to 10 % of  $MgO$ , 0 to 15 % of  $SrO$ , 0 to 10 % of  $ZnO$ , the total content of  $MgO$ ,  $CaO$ ,  $SrO$ ,  $BaO$  and  $ZnO$  being 3 to 30 %, the ratio of the content of  $CaO$  to the total content of  $MgO$ ,  $CaO$ ,  $SrO$  and  $BaO$  being at least 0.5, and 0 to 10 % of  $TiO_2$ , the total content of said components being at least 95 %.

10 6. The substrate for an information recording medium as recited in claim 1, wherein the glass contains  $SiO_2$ ,  $Al_2O_3$ ,  $CaO$ ,  $BaO$ ,  $Na_2O$  and  $ZrO_2$  as essential components and has a chemically strengthened layer,

15 7. The substrate for an information recording medium as recited in claim 6, wherein the glass has a composition comprising, by mol%, 47 to 70 % of  $SiO_2$ , 1 to 10 % of  $Al_2O_3$ , the total content of  $SiO_2$  and  $Al_2O_3$  being 57 to 80 %, 2 to 25 % of  $CaO$ , 1 to 15 % of  $BaO$ , 1 to 10 % of  $Na_2O$ , 0 to 15 %  
20 of  $K_2O$ , 0 to 3 % of  $Li_2O$ , the total content of  $Na_2O$ ,  $K_2O$  and  $Li_2O$  being 3 to 16 %, 1 to 12 % of  $ZrO_2$ , 0 to 10 % of  $MgO$ , 0 to 15 % of  $SrO$ , 0 to 10 % of  $ZnO$ , the total content of  $MgO$ ,  $CaO$ ,  $SrO$ ,  $BaO$  and  $ZnO$  being 3 to 30 %, the ratio of the content of  $CaO$  to the total content of  $MgO$ ,  $CaO$ ,  $SrO$   
25 and  $BaO$  being at least 0.5, and 0 to 10 % of  $TiO_2$ , the total content of said components being at least 95 %.

8. The substrate for an information recording medium as recited in any one of claims 1 to 7, which is for use in  
30 a perpendicular-magnetic-recording-mode information recording medium.

9. An information recording medium having an information recording layer formed on the substrate for an  
35 information recording medium recited in any one of claims 1 to 8.

10. The information recording medium as recited in claim 8, which is a perpendicular-magnetic-recording-mode magnetic recording medium.

5

11. A process for manufacturing an information recording medium, which comprises the step of forming an information recording layer on a substrate for an information recording medium and uses the substrate for an  
10 information recording medium recited in any one of claims 1 to 8 as said substrate, said step comprising the procedure of heating said substrate to a temperature of 300 to 600°C.